

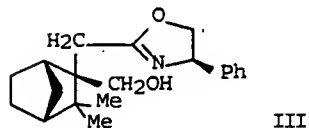
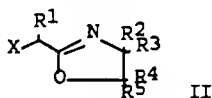
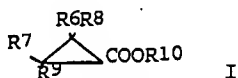
CH

28^{G16}G7

G3 = O
G4 = G5
G5 = (2-4) CH₂ (opt. substd. by G14)
G7 = Ph (opt. substd. by (1-3) G13)
G13 = halo
G14 = alkyl <containing 1-4 C>
G16 = alkylene <containing 1-2 C>
Patent location: claim 1

L47 ANSWER 4 OF 13 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 127:17671 MARPAT Full-text
TITLE: Preparation of cyclopropanecarboxylic acid derivatives
using oxazolines as asymmetric ligands
INVENTOR(S): Ikehira, Hideyuki
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

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JP 09087258	A2	19970331	JP 1995-250833	19950928
PRIORITY APPLN. INFO.: GI			JP 1995-250833	19950928



AB The title compds. [I; R₆-R₉ = H, (un)substituted alkyl, aryl, or aralkyl; R₁₀ = (un)substituted alkyl, aryl] are prepared by addition of olefin R₆CR₈:R₇CR₉ (R₆-R₉ = same as above) with N₂CHCO₂R₁₀ (R₁₀ = same as above) in the presence of copper salt catalysts and oxazoline asym. ligands [II; X = 1-hydroxy-1-cycloalkyl, 1-hydroxy-1-cycloaralkyl, etc.; R₁ = H, (un)substituted aryl; R₂-R₅ = H, (un)substituted alkyl, aryl, or aralkyl]. II are prepared from nitrile derivs. I are useful as intermediates in the production of drugs and pesticides. Thus, 2,5-dimethyl-2,4-hexadiene was reacted with N₂CHCO₂Et in the presence of (F₃CSO₃)₂Cu, PhNHNH₂, and oxazoline (III) (preparation given) to give 65.5% trans-1-R-ethoxycarbonyl-2-R- (2-methyl-1-propenyl)-3,3-dimethylcyclopropane 46.5% ee and 28.2% cis-1-R-ethoxycarbonyl-2-S- (2-methyl-1-propenyl)-3,3-dimethylcyclopropane 37.9% ee.

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